

What is claimed is:

1. A encode apparatus for encoding an input video signal and an input audio signal into a video object, comprising:

a video stream generator operable to generate a video stream by encoding the video signal;

an audio stream generator operable to generate a first audio stream by encoding the audio signal, and to generate a second audio stream for dubbing based on the generated first audio stream;

a multiplexer operable to multiplex the generated video stream, first audio stream, and second audio stream to generate a video object;

a controller operable to control the video stream generator, the audio stream generator, the multiplexer wherein

the audio stream generator is operable to generate the first audio stream to include a plurality of packs having a fixed size, and to generate the second audio stream by using audio data contained in the packs of the first audio stream so that the second audio stream has the same bit rate as the first audio stream and includes the same number of packs as the first audio stream, each pack of the second audio stream having the same size as the first audio stream,

each pack of the first and second audio streams has identification information for identifying which one of the first and second audio streams includes said each pack,

the audio stream generator includes a first buffer for storing the packs of the first audio stream and a second buffer for storing the packs of the second audio stream.

2. The encode apparatus of claim 1, wherein

the controller is operable to control the audio stream generator to store the packs of the generated first audio stream into both the first buffer and the second buffer and to change the identification information of each of the packs stored in the second buffer to identify the second audio stream.

3. The encode apparatus of claim 2 wherein the controller is operable to control the recording means to rewrite a part or all of the second audio stream included in the video object recorded on the optical disc based on an audio signal input for dubbing.

4. A machine readable and writable recording medium comprising:

a data area for storing a video object;

said video object comprising:

a video stream obtained by encoding a video signal;

a first audio stream obtained by encoding an audio signal, and having a bit rate, said first audio stream comprising a number of packs each having a fixed data size; and

a second audio stream obtained based on said first audio stream, and having the same bit rate as said first audio stream, said second audio stream comprising the same number of packs as said first audio stream and each pack of said second audio stream having the same fixed data size as each of said packs of said first audio stream, such that said second audio stream is capable of being subsequently dubbed with audio data whose contents differ from contents of audio data of said first audio stream;

wherein: said video stream and said first and second audio streams are multiplexed with each other; and said video object further includes identification flags for respectively identifying said first and second audio streams.

5. The machine readable and writable recording medium of claim 4, wherein said identification flags identify said first and second audio streams when a part or all of said second audio stream is replaced with a part or all of said first audio stream so that said first and second audio streams have the same audio data.

6. The machine readable and writable recording medium of claim 4, wherein:

each of said first and second audio streams includes a plurality of reproduction sections respectively associated with time stamps which each specify a presentation time of a corresponding one of the reproduction sections; and

said time stamps in said second audio stream provide an indication enabling said second audio stream to be presented from a same start reproduction time to a same end reproduction time as said first audio stream.